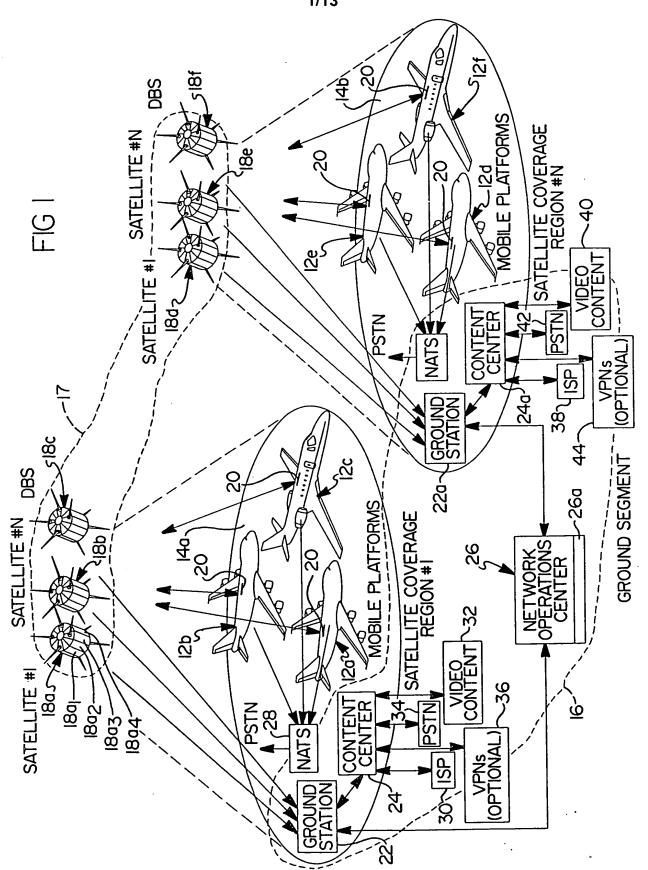
Title: Return Link Design for PSD Limited Mobile Satellite Communication Systems prial No.: 09/884,555; filed 6/19/01

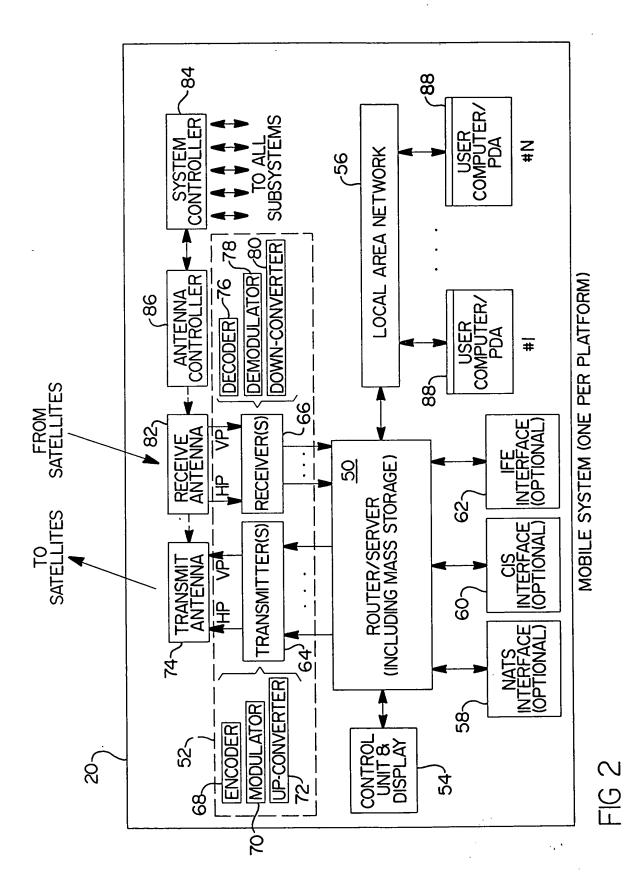
Inventor: de La Chapelle

Atty. Ref. No.: 7784-000141CPB Mark D. Elchuk, Harness Dickey & Pierce (248) 641-1600 1/13



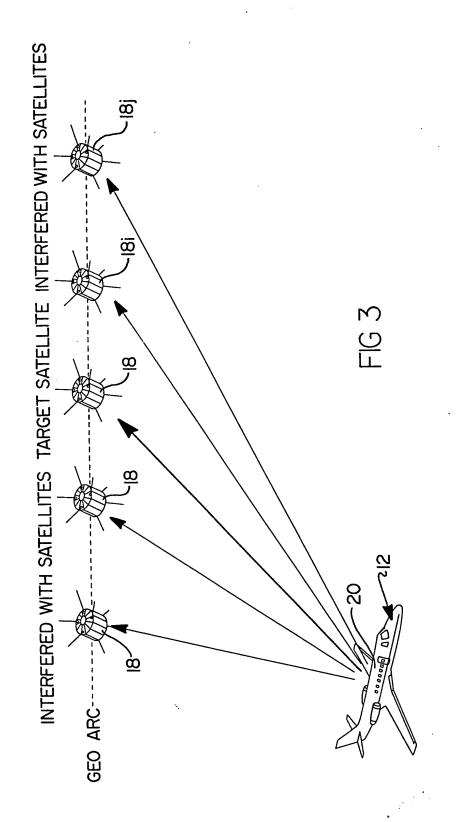
erial No.: 09/884,555; filed 6/19/01 Inventor: de La Chapelle

Atty. Ref. No.: 7784-000141CPB
Mark D. Elchuk, Harness Dickey & Pierce (248) 641-1600

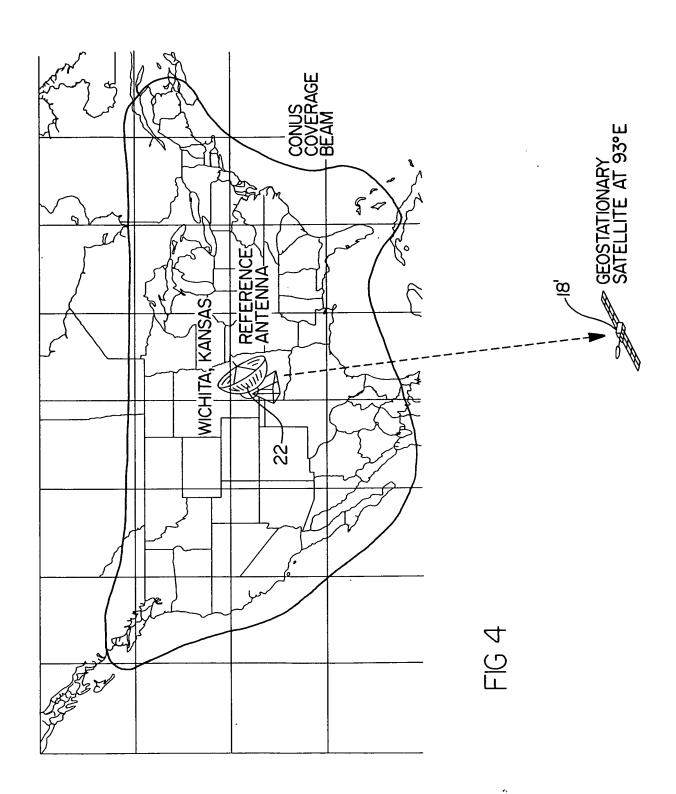


Title: Return Link Design for PSD Limited Mobile Satellite Communication Systems rial No.: 09/884,555; filed 6/19/01 Inventor: de La Chapelle Atty. Ref. No.: 7784-000141CPB

Mark D. Elchuk, Harness Dickey & Pierce (248) 641-1600 3/13



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Inventor: de La Chapelle
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Inventor: de La Chapelle Atty. Ref. No.: 7784-000141CPB

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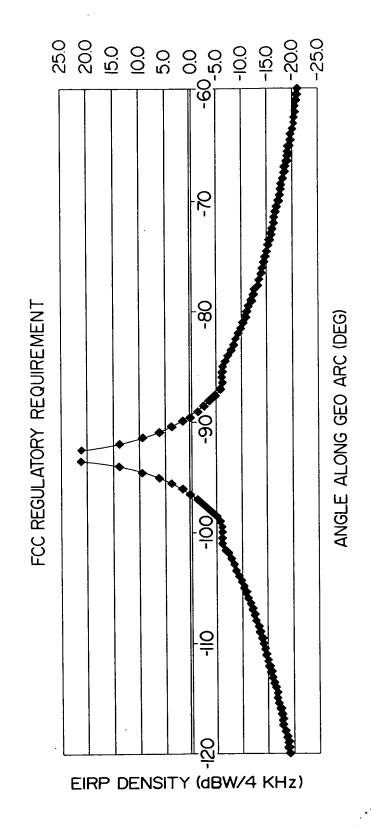
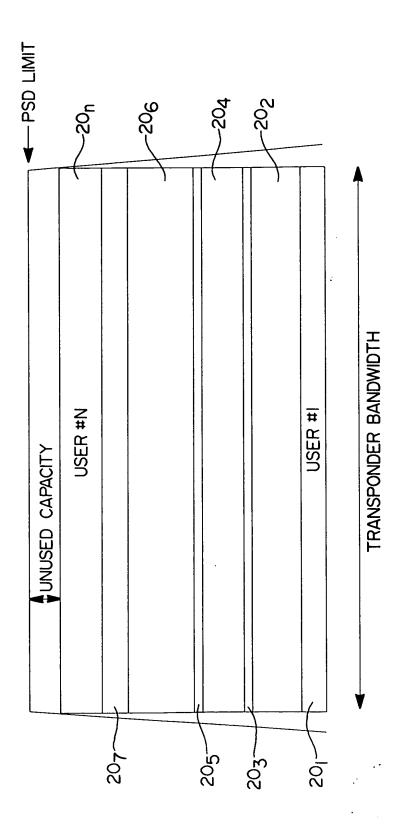


FIG 5

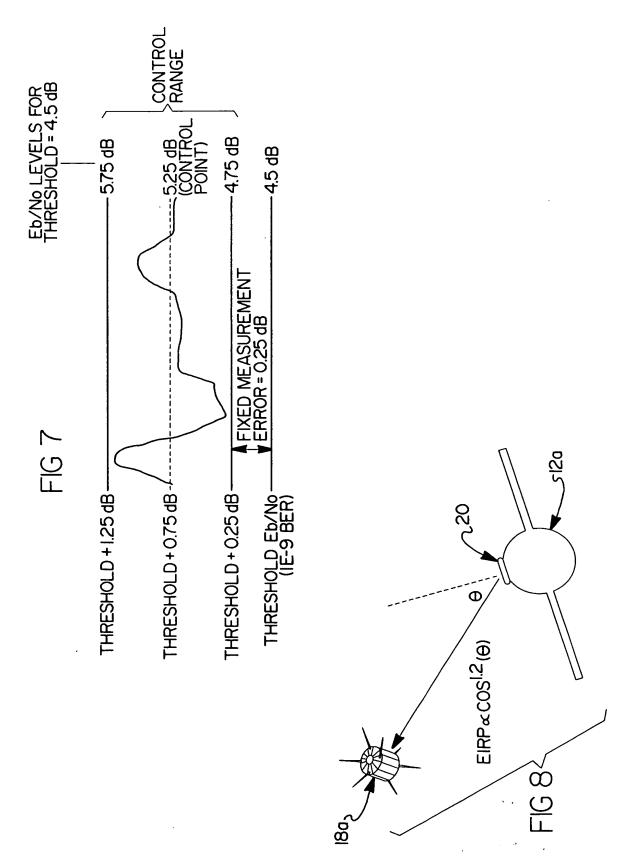
Title: Return Link Design for PSD Limited Mobile Satellite Communication Systems erial No.: 09/884,555; filed 6/19/01 Inventor: de La Chapelle
Atty. Ref. No.: 7784-000141CPB
Mark D. Elchuk, Harness Dickey & Pierce (248) 641-1600



Title: Return Link Design for PSD Limited Mobile Satellite Communication Systems erial No.: 09/884,555; filed 6/19/01 Inventor: de La Chapelle

Atty. Ref. No.: 7784-000141CPB

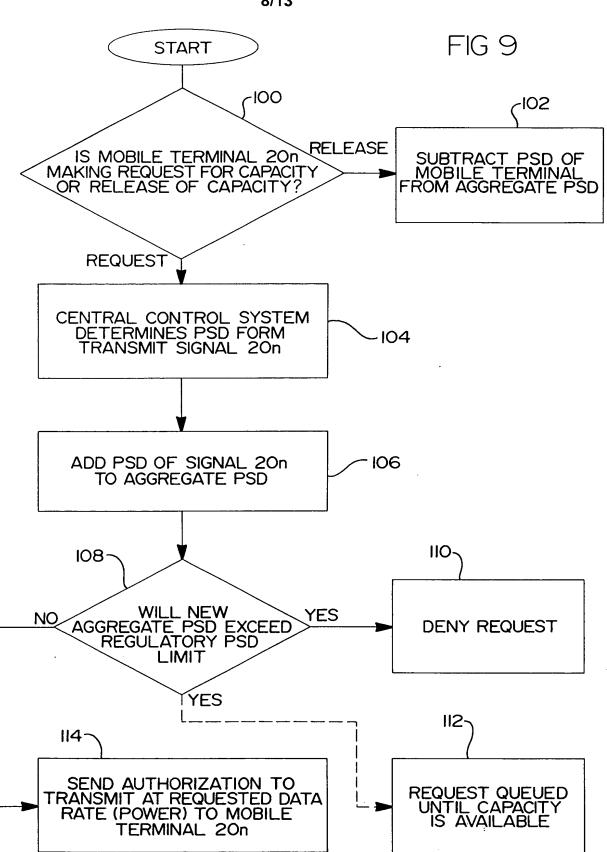
Mark D. Elchuk, Harness Dickey & Pierce (248) 641-1600

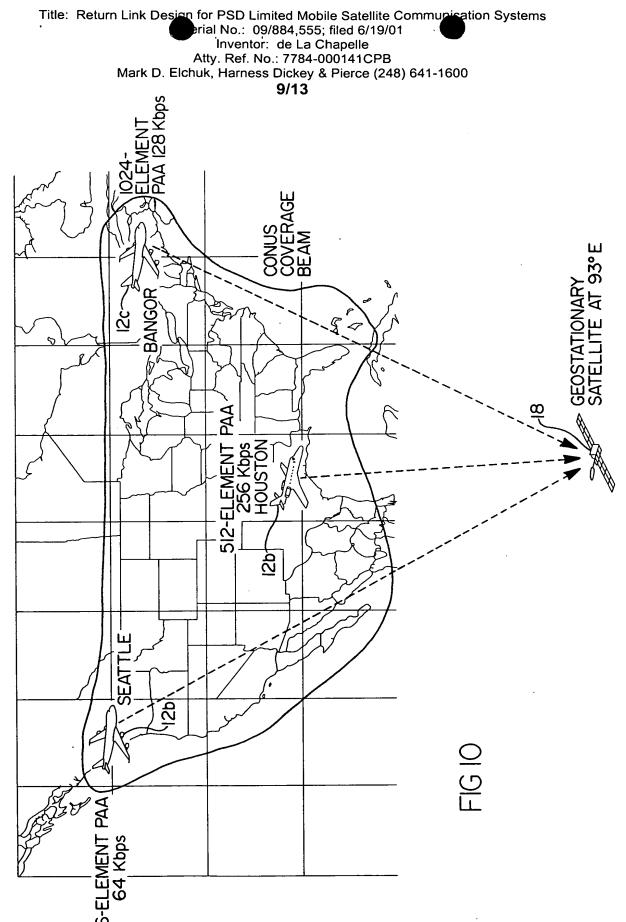


rial No.: 09/884,555; filed 6/19/01 Inventor: de La Chapelle

Atty. Ref. No.: 7784-000141CPB

Mark D. Elchuk, Harness Dickey & Pierce (248) 641-1600 **8/13**

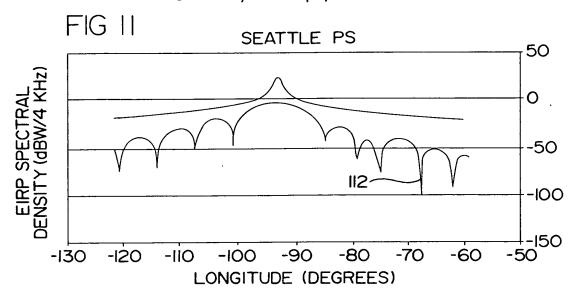




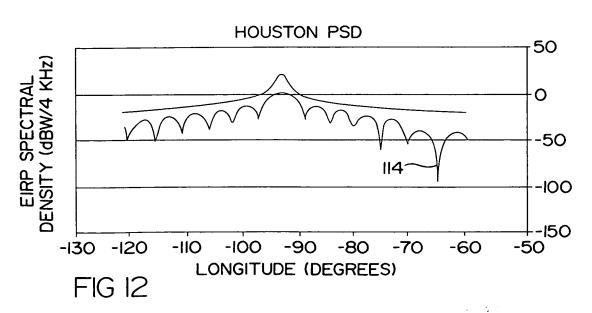
Title: Return Link Design for PSD Limited Mobile Satellite Communication Systems erial No.: 09/884,555; filed 6/19/01

Inventor: de La Chapelle
Atty. Ref. No.: 7784-000141CPB
Mark D. Elchuk, Harness Dickey & Pierce (248) 641-1600
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256 ELEMENT PHASED ARRAY ANTENNA, 34 dBW, 64 Kbps, SEATTLE

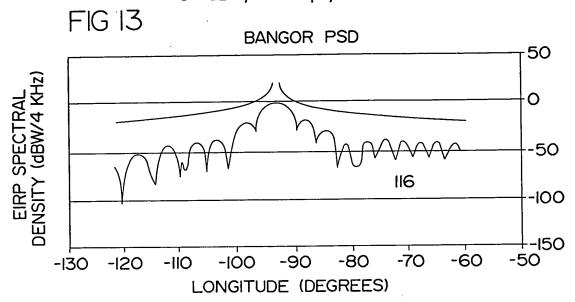


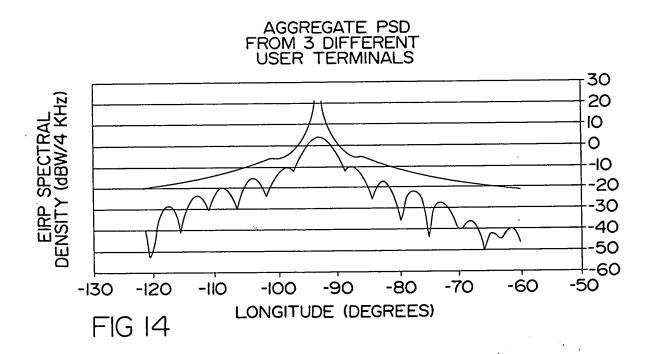
512 ELEMENT PHASED ARRAY ANTENNA, 39 dBW, 256 Kbps, HOUSTON



erial No.: 09/884,555; filed 6/19/01 Inventor: de La Chapelle Atty. Ref. No.: 7784-000141CPB Mark D. Elchuk, Harness Dickey & Pierce (248) 641-1600

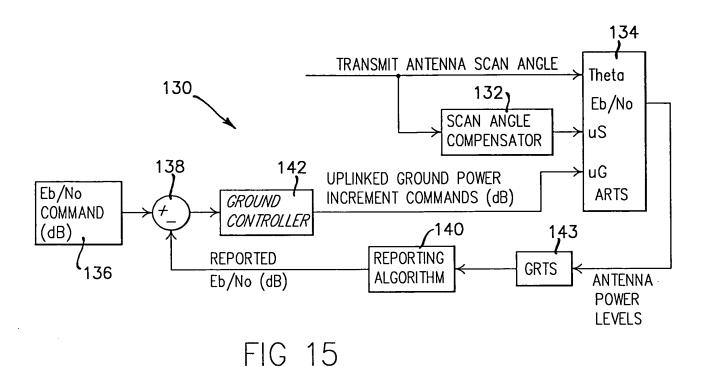
IO24 ELEMENT PHASED ARRAY ANTENNA, 37 dBW, I28 Kbps, BANGOR

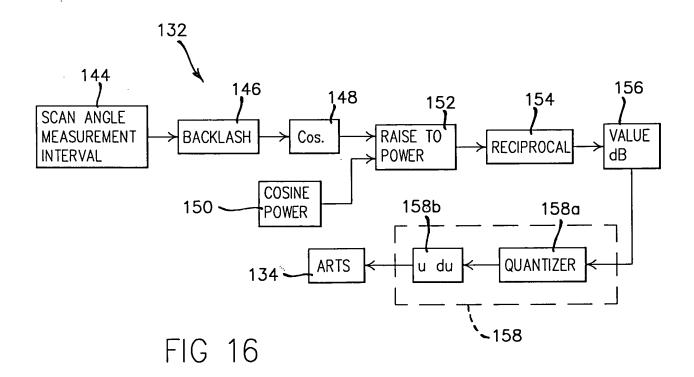




erial No.: 09/884,555; filed 6/19/01 Inventor: de La Chapelle Atty. Ref. No.: 7784-000141CPB

Mark D. Elchuk, Harness Dickey & Pierce (248) 641-1600 **12/13**





Title: Return Link Design for PSD Limited Mobile Satellite Communication Systems erial No.: 09/884,555; filed 6/19/01 Inventor: de La Chapelle

Atty. Ref. No.: 7784-000141CPB Mark D. Elchuk, Harness Dickey & Pierce (248) 641-1600

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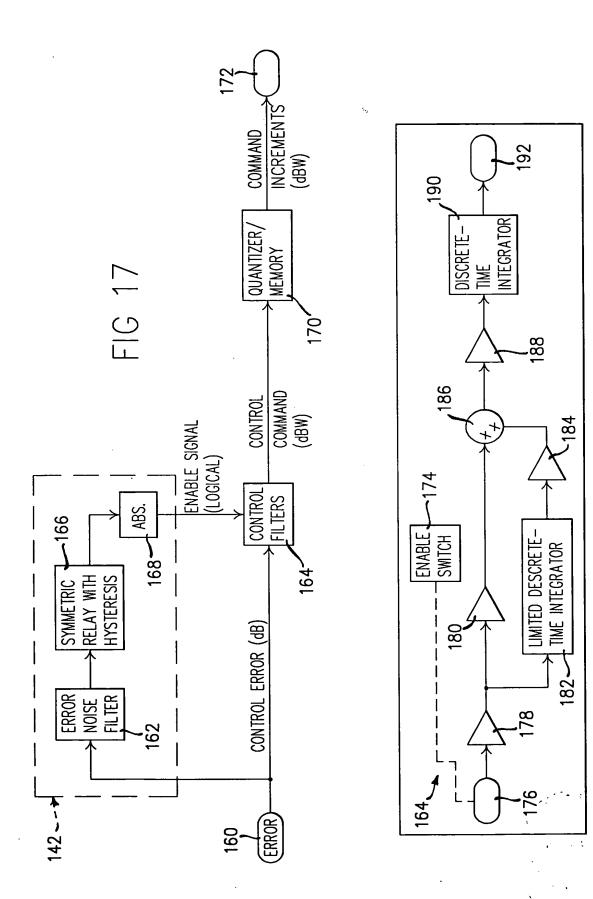


FIG 18